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6 March 1963

MEMORANDUM FOR: Assistant for Plans and Development

SUBJECT : Trip Report

*JWC*  
*11 March*

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On 25 and 26 February 1963, the undersigned visited [REDACTED] to review the MIC/I (Multiple Image Correlator) test and evaluation program, the MIC/II Study program and the Image Point Selector (Cookie Cutter).

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1. The MIC/I program is progressing in a very satisfactory manner. Some [REDACTED] materials were made available from [REDACTED] and negative materials from several ground camera systems were delivered to be incorporated in this program. Present evaluation of this instrument indicates that the maximum gain in the image quality is obtained from an input system which is grain limited rather than optics limited. If, for example, the detail in a single negative has not been recorded as a result of the resolution capability of the optical system involved, that detail exhibits very little, if any, enhancement by using the integration technique. On the other hand, if the detail has been recorded but is not discerned due to the limitations of grain size, the multiple image correlator technique will exhibit a remarkable gain or enhancement of the imagery.

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2. The MIC/II. The design study for the MIC/II will concern itself primarily with those human factors making for ease of operation. At the present time high resolution zoom optics are being considered having a magnification range continuously variable from [REDACTED]. The 8 separate stages will have motorized motions in X, Y,  $\phi$ , tip and tilt. Some small amount of rectification on the order of [REDACTED] is being considered. This rather limited rectification is occasioned by the depth of field limitations. A further consideration is being made to accommodate roll film rather than cut film chips. The rolls would be very limited in diameter accommodating possibly not more than 1 or 2 negative frames. At some time approximately mid-way in this study program, [REDACTED] intends to submit a proposal to fabricate the MIC/II. There has been considerable interest within the community on the MIC/I instrument.

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3. In addition to items 1 and 2 above, several other items of possible interest to NPIC were discussed.

- a. A zoom enlarger
- b. A contact printer for generating multiple copies simultaneously.
- c. The plastic fluid gate.

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d. A systems concept which will be designated PREPS (Photo Reconnaissance Exposure and Printing System). This systems concept would include some available items and would propose to develop the missing items in a continuous concept of original negative processing, immediate edit and titling, exposure printing programming, cleaning and coating, multiple printing and processing of the second generation materials.

e. Electronic Viewer. In response to the form letter distributed by NPIC, [REDACTED] intends to send two representatives to the 1 April Bidder's conference. H-7

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